### PATENT COOPERATION TREATY

From the INTERNATIO	NAL SEARCH	ING AUTH	ORITY					
To: LAURENCE J. HYMAN TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO, CA 94111					PCT  WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
					INTERNATIO	(PCT Rule 43bis.1)		
923070-150000 PC					Date of mailing (day/month/year)	17 NOV 2005		
Applicant's or agent's file reference					FOR FURTHER	ACTION See paragraph 2 below		
2307O-15PC International application No. International filing date					(day/month/sage)	Priority date (day/month/year)		
	International application No.			_				
PCT/US04/2: International		ation (IPC)		ust 2004 (06.08.2 ational classificat		06 August 2003 (06.08.2003)		
International Patent Classification (IPC) or both national classification and IPC								
IPC(7): A01N 1/00 and US Cl.: 435/2 Applicant								
THE REGENTS OF THE UNIVERSITY OF CALIFORNIA								
1. This opin	nion contains in	dications rela	ating to th	ne following item	S:			
В	Box No. I Basis of the opinion							
<b>?</b> [] B	Box No. II	Priority						
В	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability							
В	Box No. IV	x No. IV Lack of unity of invention				·		
В	Box No. V Reasoned statement under Rule 43bis.  applicability, citations and explanation							
В	Box No. VI	Certain documents cited						
В	Box No. VII Certain defects in the international app				plication			
В	Box No. VIII	Certain obs	ervations	on the internation	nal application			
2 FURTE	HER ACTION	1				•		
If a dem Internation	nand for international Preliminar	tional prelimy Examinings one to be	g Author the IPEA	rity ("IPEA") ex and the chosen	cept that this does	be considered to be a written opinion of the not apply where the applicant chooses an he International Bureau under Rule 66.1bis(b) ered.		
IPEA a v	written reply to	ether, where	appropr	iate, with amend	ments, before the ex	PEA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.		
For furth	For further options, see Form PCT/ISA/220.					Respond to Krtten Opinion		
3. For further details, see notes to Form PCT/ISA/220.								
Name and mailing address of the ISA/US			Date of comple	tion of this opinion	Authorized officer			
Mail Stop PCT, Attn: ISA/US Commissioner for Patents				17 October 200	5 (17.10.2005)	Sandra Sauccippi		
P.O. Box 1450 Alexandria, Virginia 22313-1450					Telephone No. (571) 272-0926			
	. (571) 273-320 ./237 (cover she		05)					

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/25395

Box No. I Basis of this opinion						
1. With regard to the language, this opinion has been established on the basis of:						
the international application in the language in which it was filed						
a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).						
<ol> <li>With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:</li> </ol>						
a. type of material						
a sequence listing						
table(s) related to the sequence listing						
b. format of material						
on paper						
in electronic form						
c. time of filing/furnishing						
contained in the international application as filed.						
filed together with the international application in electronic form.						
furnished subsequently to this Authority for the purposes of search.						
In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been fill or furnished, the required statements that the information in the subsequent or additional copies is identical to that in tapplication as filed or does not go beyond the application as filed, as appropriate, were furnished.	:d ne					
4. Additional comments:						
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application, No.
PCT/US04/25395

Box No. IV Lack of unity of invention							
In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:  paid additional fees  paid additional fees under protest and, where applicable, the protest fee  paid additional fees under protest but the applicable protest fee was not paid  not paid additional fees  This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to							
pay additional fees.							
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is complied with							
not complied with for the following reasons:							
See the lack of unity section of the International Search Report(Form PCT/ISA/210)							
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·							
4. Consequently, this opinion has been established in respect of the following parts of the international application:							
all parts.							
the parts relating to claims Nos. <u>1-13</u>							

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/25395

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

# 1. Statement Novelty (N) Claims 4 and 7-10 YES Claims 1-3, 5, 6, 11-13 YES Claims 7-10 YES Claims 1-6, 11-13 NO Inventive step (IS) Claims 7-10 YES Claims 1-6, 11-13 YES Claims NONE NO

#### 2. Citations and explanations:

Claims 1-3, 5, 6, 11-13 lack novelty under PCT Article 33(2) as being anticipated by Nakao et al..

The claims are directed to a one step method of disposing an erythrocyte in a hyperosmotic solution, thereby transferring a solute into the cell.

Nakao et al. disclose the one step method of disposing an erythrocyte in a solution comprising hyperosmotic sucrose and then potassium phosphate at a temperature of 37  $\square$ C. See page 528, Results and Figures 1 and 3 in particular.

Claim 4 lacks an inventive step under PCT Article 33(3) as being obvious over Eroglu et al..

Eroglu et al. disclose a method of improving survival of cryopreserved mammalian cells by loading the cells with 0.4M trehalose, see Introduction on page 163.

Claims 7-10 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the limitation therein

Claims 1-13 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.